

## Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

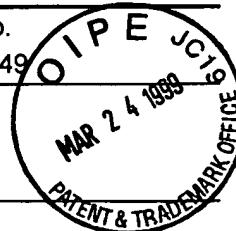
## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.  
ARCD:278/WIMSerial No.  
09/207,649

Applicant

Susan Lindquist

Filing Date:  
December 8, 1998Group:  
1646

## U.S. Patent Documents

See Page 1

## Foreign Patent Documents

See Page 1

## Other Art

See Page 1

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<i>SL</i>	B1	WO 96/39834	12/19/96	PCT			

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>SL</i> ✓	C1	Baker <i>et al.</i> , "Induction of $\beta$ (A4)-amyloid in primates by injection of alzheimer's disease brain homogenate", <i>Mol. Neurobiol.</i> , 8(1):25-39, 1994.
<i>SL</i> ✓	C2	Bendheim <i>et al.</i> , "Antibodies to a scrapie prion protein", <i>Nature</i> , 310(5976):418-421, 1984.
<i>SL</i>	C3	Bertoni <i>et al.</i> , "Familial creutzfeldt-jakob disease with the PRNP codon 200 <sup>lys</sup> mutation and supranuclear palsy but without myoclonus or periodic EEG complexes", <i>Neurology, Abstract</i> , 42(4, Suppl. 3):350, 1992.
<i>SL</i>	C4	Bessen <i>et al.</i> , "Non-genetic propagation of strain-specific properties of scrapie prion protein", <i>Nature</i> , 375:698-700, 1995.
<i>SL</i>	C5	Bessen <i>et al.</i> , "In situ formation of protease-resistant prion protein in transmissible spongiform encephalopathy-infected brain slices", <i>J. Biol. Chem.</i> , 272(24):15227-15233, 1997.
<i>SL</i>	C6	Bockman <i>et al.</i> , "Creutzfeld-Jakob disease prion proteins in human brains", <i>N. Engl. J. Med.</i> , 312(2):73-78, 1985.
<i>SL</i>	C7	Bolton <i>et al.</i> , "Isolation and structural studies of the intact scrapie agent protein", <i>Arch. Biochem. Biophys.</i> , 258:579-590, 1987.
<i>SL</i>	C8	Bolton <i>et al.</i> , "Molecular characteristics of the major scrapie prion protein", <i>Biochemistry</i> 23:5898-5905, 1984.

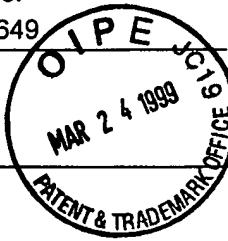
Examiner: *Shawn Dene*

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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	



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Exam. Init.	Ref. Des.	Citation
✓	C9	Bolton <i>et al.</i> , "Identification of a protein that purifies with the scrapie prion", <i>Science</i> , 218:1309-1311, 1982.
✓	C10	Borchelt <i>et al.</i> , "Evidence for synthesis of scrapie prion proteins in the endocytic pathway", <i>J. Biol. Chem.</i> , 267(23):16188-16199, 1992.
✓	C11	Bossers <i>et al.</i> , "Scrapie susceptibility-linked polymorphisms modulate the <i>in vitro</i> conversion of sheep prion protein to protease-resistant forms", <i>Proc. Natl. Acad. Sci. USA</i> , 94:4931-4936, 1997.
✓	C12	Burston <i>et al.</i> , "Release of both native and non-native proteins from a <i>cis</i> -only GroEL ternary complex", <i>Nature</i> , 383:96-99, 1996.
✓	C13	Buchner, "Supervising the fold: functional principles of molecular chaperones", <i>FASEB J.</i> , 10:10-19, 1996.
✓	C14	Carlson <i>et al.</i> , "Genetics and polymorphism of the mouse prion gene complex: Control of scrapie incubation time", <i>Mol. Cell. Biol.</i> , 8(12):5528-5540, 1988.
✓	C15	Caughey <i>et al.</i> , "Binding of the protease-sensitive form of prion protein PrP to sulfated glycosaminoglycan and congo red", <i>J. Virol.</i> , 68(4):2135-2141, 1994.
✓	C16	Caughey and Chesebro, "Prion protein and the transmissible spongiform encephalopathies", <i>Trends Cell Biol.</i> , 7:56-62, 1997.
✓	C17	Caughey <i>et al.</i> , "Secondary structure analysis of the scrapie-associated protein PrP 27-30 in water by infrared spectroscopy", <i>Biochemistry</i> , 30:7672-7680, 1991.
✓	C18	Caughey <i>et al.</i> , "N-terminal truncation of the scrapie-associated form of PrP by lysosomal protease(s): Implications regarding the site of conversion of PrP to the protease-resistant state", <i>J. Virol.</i> , 65(12):6597-6603, 1991.
✓	C19	Caughey and Raymond, "The scrapie-associated form of PrP is made from a cell surface precursor that is both protease- and phospholipase-sensitive", <i>J. Biol. Chem.</i> , 266(27):18217-18233, 1991.
✓	C20	Chernoff <i>et al.</i> , "Role of the chaperone protein Hsp104 in propagation of the yeast prion-like factor [psi <sup>+</sup> ]", <i>Science</i> , 268:880-884, 1995.
✓	C21	Cyr <i>et al.</i> , "Regulation of Hsp70 function by a eukaryotic DnaJ homolog", <i>J. Biol. Chem.</i> , 267(29):20927-20931, 1992.

Examiner: S. DunnDate Considered: 7-23-99

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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	



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Exam. Init.	Ref. Des.	Citation
✓	C22	Deb Burman <i>et al.</i> , "Chaperone-supervised conversion of prion protein to its protease-resistant form", <i>Proc. Natl. Acad. Sci. USA</i> , 94:13938-13943, 1997.
✓	C23	Dlouhy <i>et al.</i> , "Linkage of the Indiana kindred of Gerstmann-Sträussler-Scheinker disease to the prion protein gene", <i>Nat. Genet.</i> , 1:64-67, 1992.
✓	C24	Doh-ura <i>et al.</i> , "Pro→Leu change at position 102 of prion protein is the most common but not the sole mutation related to Gerstmann-Sträussler syndrome", <i>Biochem. Biophys. Res. Commun.</i> , 163(2):974-979, 1989.
✓	C25	Edenhofer <i>et al.</i> , "Prion protein PrP <sup>c</sup> interacts with molecular chaperones of the Hsp60 family", <i>J. Virol.</i> , 70(7):4724-4728, 1996.
✓	C26	Freeman <i>et al.</i> , "Identification of a regulatory motif in Hsp70 that affects ATPase activity, substrate binding and interaction with HDJ-1", <i>EMBO J.</i> , 14(10):2281-2292, 1995.
✓	C27	Gabizon <i>et al.</i> , "Mutation and polymorphism of the prion protein gene in Libyan Jews with Creutzfeldt-Jakob disease (CJD)", <i>Am. J. Hum. Genet.</i> , 53:828-835, 1993.
✓	C28	Gasset <i>et al.</i> , "Predicted α-helical regions of the prion protein when synthesized as peptides form amyloid", <i>Proc. Natl. Acad. Sci. USA</i> , 89:10940-10944, 1992.
✓	C30	Goldfarb <i>et al.</i> , "An insert mutation in the chromosome 20 amyloid precursor gene in a Gerstmann-Sträussler-Scheinker family", <i>J. Neurol. Sci.</i> , 111:189-194, 1992.
✓	C31	Goldfarb <i>et al.</i> , "New mutation in scrapie amyloid precursor gene (at codon 178) in Finnish Creutzfeldt-Jakob kindred", <i>Lancet</i> , 337:425, 1991.
✓	C32	Goldfarb <i>et al.</i> , "Mutation in codon 200 of scrapie amyloid precursor gene linked to Creutzfeldt-Jakob disease in Sephardic Jews of Libyan and non-Libyan origin", <i>Lancet</i> , 336:637-638, 1990.
✓	C33	Goldgaber <i>et al.</i> , "Mutations in familial Creutzfeldt-Jakob disease and Gerstmann-Sträussler-Scheinker's syndrome", <i>Exp. Neurol.</i> , 106:204-206, 1989.
✓	C34	Griffith, "Nature of the scrapie agent", <i>Nature</i> , 215:1043-1044, 1967.

Examiner: *S. June*Date Considered: *4-23-99*

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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	



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Exam. Init.	Ref. Des.	Citation
	C35	Guirroy <i>et al.</i> , "Immunolocalization of scrapie amyloid in non-congophilic, non-birefringent deposits in golden Syrian hamsters with experimental transmissible mink encephalopathy", <i>Neurosci. Lett.</i> , 155(1):112-115, 1993.
	C36	Hartl, "Molecular chaperones in cellular protein folding", <i>Nature</i> , 381:571-580, 1996.
	C37	Hsiao <i>et al.</i> , "Linkage of a prion protein missense variant to Gerstmann-Sträussler syndrome", <i>Nature</i> , 338:342-345, 1989.
	C38	Hwang <i>et al.</i> , "Protease Ti, a new ATP-dependent protease in <i>Escherichia coli</i> , contains protein-activated ATPase and proteolytic functions in distinct subunits", <i>J. Biol. Chem.</i> , 263(18):8727-8734, 1988.
	C39	Kenward <i>et al.</i> , "Heat shock proteins, molecular chaperones and the prion encephalopathies", <i>Cell Stress &amp; Chaperones</i> , 1(1):18-22, 1996.
	C40	King <i>et al.</i> , "Prion-inducing domain 2-114 of yeast Sup35 protein transforms <i>in vitro</i> into amyloid-like filaments", <i>Proc. Natl. Acad. Sci. USA</i> , 94:6618-6622, 1997.
	C41	Kitamoto <i>et al.</i> , "An amber mutation of prion protein in Gerstmann-Sträussler syndrome with mutant PrP plaques", <i>Biochem. Biophys. Res. Commun.</i> , 192(2):525-531, 1993.
	C42	Kitamoto <i>et al.</i> , "Novel missense variants of prion protein in creutzfeldt-jakob disease or gerstmann-straussler syndrome", <i>Biochem. Biophys. Res. Commun.</i> , 191:709-714, 1993.
	C43	Klunk <i>et al.</i> , "Quantitative evaluation of congo red binding to amyloid-like proteins with a Beta-pleated sheet conformation", <i>J. Histochem. Cytochem.</i> , 37(8):1273-1279, 1989.
	C44	Kocisko <i>et al.</i> , "Cell-free formation of protease-resistant prion protein", <i>Nature</i> , 370:471-474, 1994.
	C45	Kocisko <i>et al.</i> , "Species specificity in the cell-free conversion of prion protein to protease-resistant forms: A model for the scrapie species barrier", <i>Proc. Natl. Acad. Sci. USA</i> , 92:3923-3927, 1995.
	C46	Lansbury and Caughey, "The chemistry of scrapie infection: implications of the 'ice 9' metaphor", <i>Chem. Biol.</i> , 2:1-5, 1995.
	C47	Lanzetta <i>et al.</i> , "An improved assay for nanomole amounts of inorganic phosphate", <i>Analyt. Biochem.</i> , 100:95-97, 1979.

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U.S. Patent Documents  See Page 1	Foreign Patent Documents  See Page 1	Other Art  See Page 1	



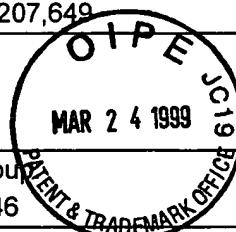
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<i>ST</i>	C48	Lee <i>et al.</i> , "Structure and <i>in vitro</i> molecular chaperone activity of cytosolic small heat shock proteins from Pea", <i>J. Biol. Chem.</i> , 270(15):10432-10438, 1995.
<i>ST</i>	C49	Lehmann and Harris, "Mutant and infectious prion proteins display common biochemical properties in cultured cells", <i>J. Biol. Chem.</i> , 271(3):1633-1637, 1997.
<i>ST</i>	C50	Lindquist, "Mad cows meet Psi-chotic yeast: The expansion of the prion hypothesis", <i>Cell</i> , 89:495-498, 1997.
<i>ST</i>	C51	Masters <i>et al.</i> , "Creutzfeldt-Jakob disease: Patterns of worldwide occurrence and the significance of familial and sporadic clustering", <i>Ann. Neurol.</i> , 5(2):177-188, 1979.
<i>ST</i>	C52	Maurizi <i>et al.</i> , "Endopeptidase Clp: ATP-dependent Clp protease from <i>Escherichia coli</i> ", <i>Meth. in Enzymol.</i> , 244:314-331, 1994.
<i>ST</i>	C53	McKinley <i>et al.</i> , "A protease-resistant protein is a structural component of the scrapie prion", <i>Cells</i> , 35:57-62, 1982.
<i>ST</i>	C54	Medori <i>et al.</i> , <i>N. Engl. J. Med.</i> , 326:444-449, 1992.
<i>ST</i>	C55	Mehlhorn <i>et al.</i> , "High-level expression and characterization of a purified 142-residue polypeptide of the prion protein", <i>Biochemistry</i> , 35(17):5528-5537, 1996.
<i>ST</i>	C56	Mendoza <i>et al.</i> , "Chaperonins facilitate the <i>in vitro</i> folding of monomeric mitochondrial rhodanese", <i>J. Biol. Chem.</i> , 266(20):13044-13049, 1991.
<i>ST</i>	C57	Müller-Hill and Beyreuther, "Molecular biology of alzheimer's disease", <i>Annu. Rev. Biochem.</i> , 58:287-307, 1989.
<i>ST</i>	C58	Nakamura <i>et al.</i> , "L-proline is an essential amino acid for hepatocyte growth in culture", <i>Biochem. Biophys. Res. Comm.</i> , 122(3):884-891, 1984.
<i>ST</i>	C59	Nguyen <i>et al.</i> , "Prion protein peptides induce $\alpha$ -helix to $\beta$ -sheet conformational transitions", <i>Biochemistry</i> , 34:4186-4192, 1995.
<i>ST</i>	C60	Oesch <i>et al.</i> , "A cellular gene encodes scrapie PrP 27-30 protein", <i>Cell</i> , 40:735-746, 1985.
<i>ST</i>	C61	Pan <i>et al.</i> , "Conversion of $\alpha$ -helices into $\beta$ -sheets features in the formation of the scrapie prion proteins", <i>Proc. Natl. Acad. Sci. USA</i> , 90:10962-10966, 1993.

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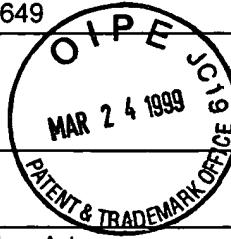
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<i>ST</i>	C62	Parsell <i>et al.</i> , "Saccharomyces cerevisiae Hsp104 protein", <i>J. Biol. Chem.</i> , 269(6):4480-4487, 1994.
<i>ST</i>	C63	Parsell <i>et al.</i> , "Protein disaggregation mediated by heat-shock protein Hsp104", <i>Nature</i> , 372:475-478, 1994.
<i>ST</i>	C64	Parsell <i>et al.</i> , "Hsp104 is a highly conserved protein with two essential nucleotide-binding sites", <i>Nature</i> , 353:270-272, 1991.
<i>ST</i>	C65	Parsell and Lindquist, "The function of heat-shock proteins in stress tolerance: degradation and reactivation of damaged proteins", <i>Annu. Rev. Genet.</i> , 27:437-496, 1993.
<i>ST</i>	C66	Patino <i>et al.</i> , "Support for the prion hypothesis for inheritance of a phenotypic trait in yeast", <i>Science</i> , 273:622-626, 1996.
<i>ST</i>	C67	Paushkin <i>et al.</i> , "Propagation of the yeast prion-like [psi <sup>+</sup> ] determinant is mediated by oligomerization of the SUP35-encoded polypeptide chain release factor", <i>EMBO J.</i> , 15(12):3127-3134, 1996.
<i>ST</i>	C68	Paushkin <i>et al.</i> , "In vitro propagation of the prion-like state of yeast Sup35 protein", <i>Science</i> , 277:381-383, 1997.
<i>ST</i>	C69	Petersen <i>et al.</i> , "Analysis of the prion protein gene in thalamic dementia", <i>Neurology</i> , 42:1859-1863, 1992.
<i>ST</i>	C70	Pike <i>et al.</i> , "Neurodegeneration induced by β-amyloid peptides <i>in vitro</i> : The role of peptide assembly state", <i>J. Neurosci.</i> 13(4):1676-1687, 1993.
<i>ST</i>	C71	Poulter <i>et al.</i> , "Inherited prion disease with 144 base pair gene insertion", <i>Brain</i> , 115:675-685, 1992.
<i>ST</i>	C72	Prusiner <i>et al.</i> , "Purification and structural studies of a major scrapie prion protein", <i>Cell</i> , 38:127-134, 1984.
<i>ST</i>	C73	Prusiner <i>et al.</i> , "Further purification and characterization of scrapie prions", <i>Biochemistry</i> , 21:6942-6950, 1982.
<i>ST</i>	C74	Prusiner, "Prions", <i>In: Fields Virology</i> , Fields, B.N., Knipe, D.M. & Howley, P.M. (Eds.), Lippencott-Raven Publishers, Philadelphia, pp 2901-2950, 1996.

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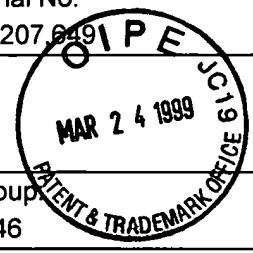
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ST	C75	Prusiner <i>et al.</i> , "Scrapie prions aggregate to form amyloid-like birefringent rods", <i>Cell</i> , 35:349-358, 1983.
ST	C76	Prusiner, "Molecular biology and pathogenesis of prion diseases", <i>Trends Biochem. Sci.</i> , 21:482-487, 1996.
ST	C77	Raymond <i>et al.</i> , "Molecular assessment of the potential transmissibilities of BSE and scrapie to humans", <i>Nature</i> , 388:285-288, 1997.
ST	C78	Riek <i>et al.</i> , "NMR structure of the mouse prion protein domain PrP (121-231)", <i>Nature</i> , 382:180-184, 1996.
ST	C79	Sanchez and Lindquist, "HSP104 required for induced thermotolerance", <i>Science</i> , 248:1112-1115, 1990.
ST	C80	Schirmer and Lindquist, "Interactions of the chaperone Hsp104 with yeast Sup35 and mammalian PrP", <i>Proc. Natl. Acad. Sci. USA</i> , 94:13932-13937, 1997.
ST	C81	Schirmer <i>et al.</i> , "HSP100/Clp proteins: A common mechanism explains diverse functions", <i>Trends Biochem. Sci.</i> , 21:289-296, 1996.
ST	C82	Talzelt <i>et al.</i> , "Chemical chaperones interfere with the formation of scrapie prion protein", <i>EMBO J.</i> , 15(23):6363-6373, 1996.
ST	C83	Tashima <i>et al.</i> , "Congophilic in cerebral amyloidosis is modified by inactivation procedures on slow transmissible pathogens", <i>Brain Res.</i> , 399(1):80-86, 1986.
ST	C84	Telling <i>et al.</i> , "Prion propagation in mice expressing human and chimeric PrP transgenes implicates the interaction of cellular PrP with another protein", <i>Cell</i> , 83:79-90, 1995.
ST	C85	Ter-Avanesyan <i>et al.</i> , "Deletion analysis of the SUP35 gene of the yeast <i>Saccharomyces cerevisiae</i> reveals two non-overlapping functional regions in the encoded protein", <i>Mol. Microbiol.</i> , 7(5):683-692, 1993.
ST	C86	Todd and Lorimer, "Stability of the asymmetric <i>Escherichia coli</i> chaperonin complex", <i>J. Biol. Chem.</i> , 270(10):5388-5394, 1995.
ST	C87	Vey <i>et al.</i> , "Subcellular colocalization of the cellular and scrapie prion proteins in caveolae-like membranous domains", <i>Proc. Natl. Acad. Sci. USA</i> , 93:14945-14949, 1996.

Examiner: *J. Turner*Date Considered: *3-23-99*

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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	



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<i>SL</i>	C88	Wawrzynow <i>et al.</i> , "The ClpX heat-shock protein of <i>Escherichia coli</i> , the ATP-dependent substrate specificity component of the ClpP-ClpX protease, is a novel molecular chaperone", <i>EMBO J.</i> , 14(9):1867-1877, 1995.
<i>SL</i>	C89	Welch and Brown, "Influence of molecular and chemical chaperones on protein folding", <i>Cell Stress &amp; Chaperones</i> , 1(2):109-115, 1996.
<i>SL</i>	C90	Wickner <i>et al.</i> , "A molecular chaperone, ClpA, functions like DnaK and DnaJ", <i>Proc. Natl. Acad. Sci. USA</i> , 91:12218-12222, 1994.
<i>SL</i>	C91	Wickner, "[URE3] as an altered URE2 protein: Evidence for a prion analog in <i>Saccharomyces cerevisiae</i> ", <i>Science</i> , 264:566-569, 1994.
<i>SL</i>	C92	Wu and Chen, "Adsorption of proteins onto glass surfaces and its effect on the intensity of circular dichroism spectra", <i>Analyt. Biochem.</i> , 177:178-182, 1989.
<i>SL</i>	C93	Yancey <i>et al.</i> , "Living with water stress: Evolution of osmolyte systems", <i>Science</i> , 217:1214-1222, 1982.
<i>SL</i>	C94	Zeigelhoffer <i>et al.</i> , "The dissociation of ATP from hsp70 of <i>Saccharomyces cerevisiae</i> is stimulated by both Ydj1p and peptide substrates", <i>J. Biol. Chem.</i> , 270(18):10412-10419, 1995.
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Examiner: *S. Turner*Date Considered: *7-23-99*

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.